| Index   | Command   | Command Code  | Comments  |
|---|---|---|---|
| Index  1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. | BYPASS SAMPLE EXTEST HIGHZ CLAMP ID_CODE RUN_SCAN RUN_MBIST RUN_LBIST DBG_SCAN DBG_MBIST DBG_LBIST DBG_LBIST DBG_FUNCTION SELECT SHIFT SHIFT_CHAIN CAPTURE SKIP RESET BREAK BREAK RUN | Command Code  0_0000; 0_0001; 0_0010; 0_0011; 0_0100; 0_0101; 0_0110; 0_0111; 0_0110; 1_0000; 1_0000; 1_0001; 1_0010; 1_0010; 1_0101 0110_1100; 1_0110 2 1100; 1_0111; 1_1000 1_0000_0000; 1_1001; 1_1001 1_0000_0000; 1_1001; 1_10101 1_0000_00000; 1_10101 1_1001 | // Prior Art — Test BYPASS. // Prior Art — Test Sample/Preload. // Prior Art — Test EXTEST. // Prior Art — Test High impedance. // Prior Art — Test High impedance. // Prior Art — Test Identification code. // Test scan cores. // Test memory BIST cores. // Test logic BIST cores. // Debug scan cores. // Debug memory BIST cores. // Debug functional cores. // Debug functional cores. // Debug MBIST/LBIST cores 4 and 1. // Shift data in and out of scan cells. // Shift data in and out of scan cells. // Skip errors for 64 <cycles>. // Reset the circuit under test. // Stop when 1st break bus1 = 4h'0100. // Stop when 2nd break bus2 = 3h'936. // Run system clocks forever.</cycles> |
| 23.<br>24.  | STEP<br>STOP  | 1_1100 1_0000_0000;<br>1_1101;  | // Run system clocks 64 <cycles>. // Stop system clocks.</cycles>   |

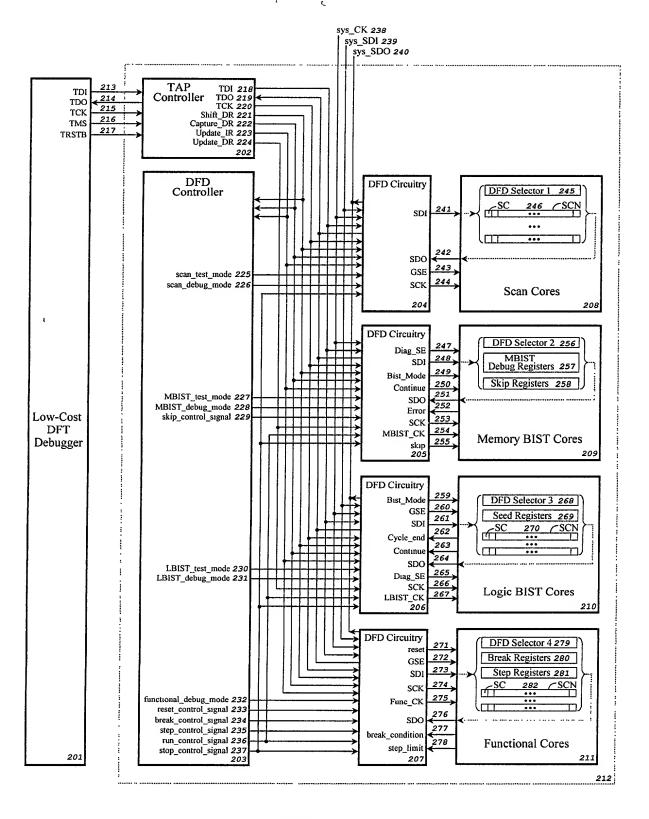


FIG. 2

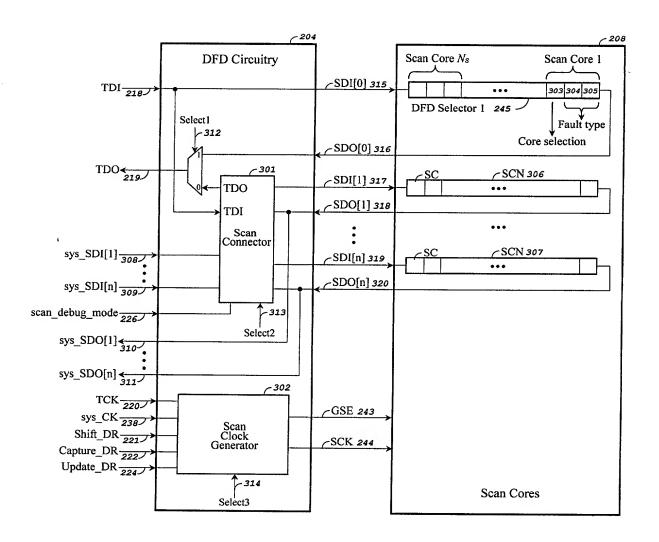


FIG. 3

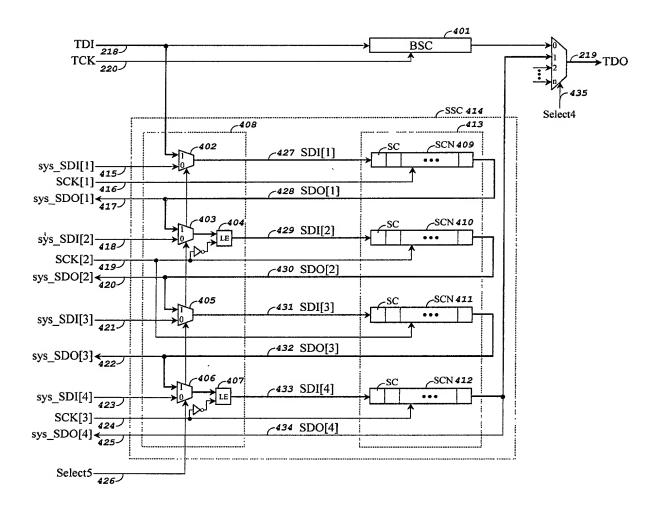
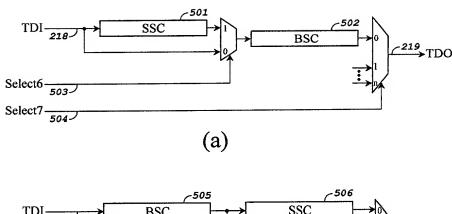


FIG. 4



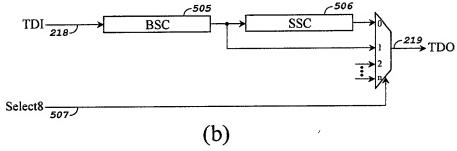


FIG. 5

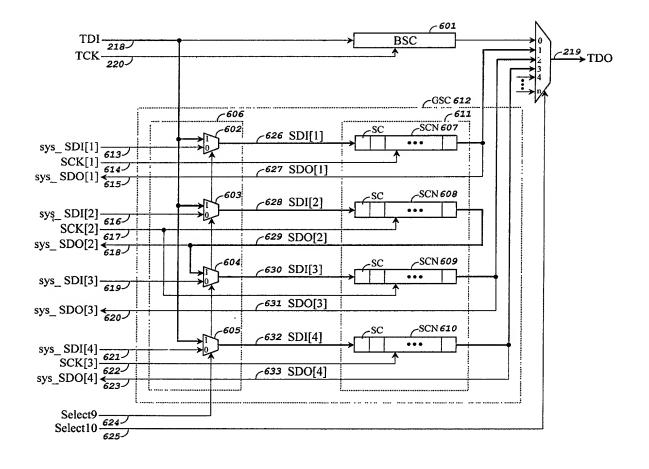


FIG. 6

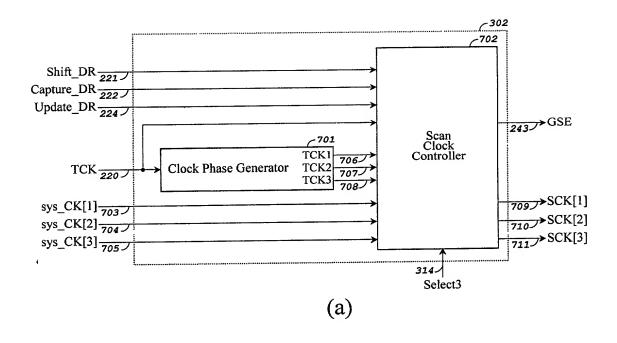
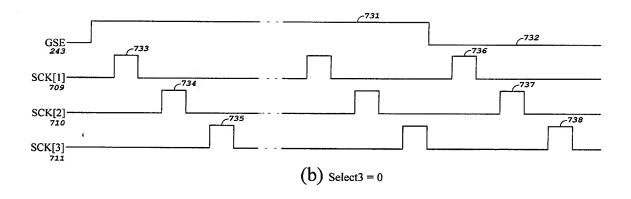


FIG. 7 Sheet-1



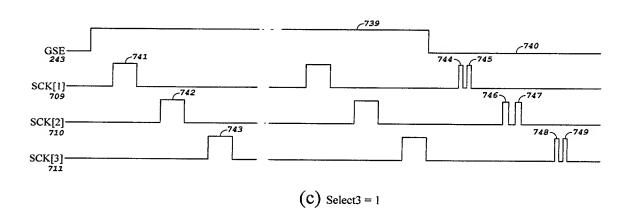


FIG. 7 Sheet-2

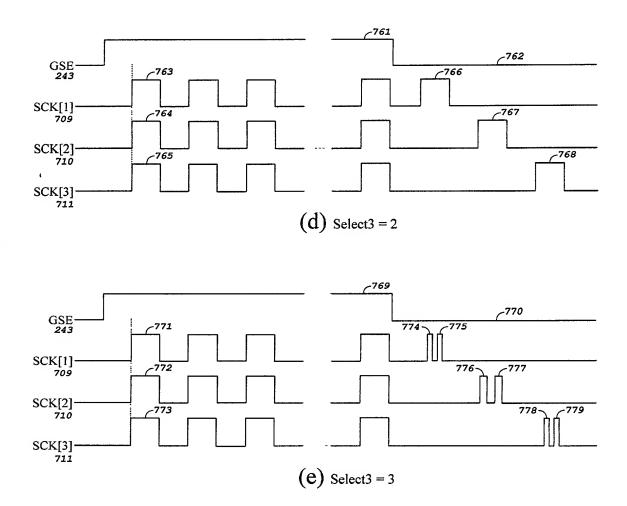


FIG. 7 Sheet-3

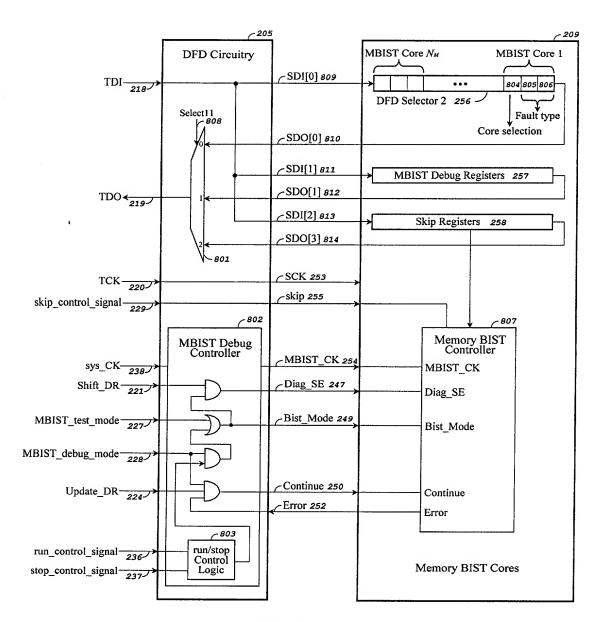


FIG. 8

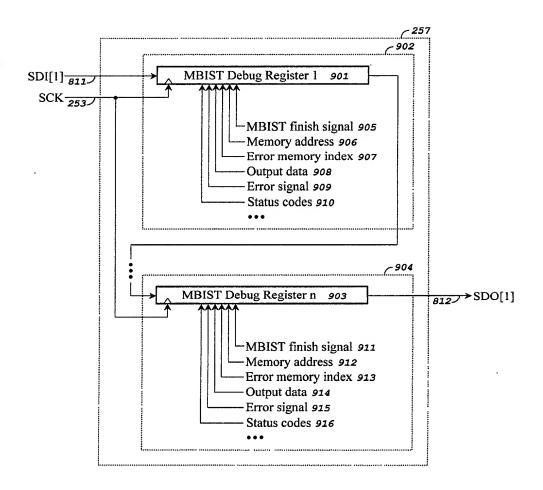


FIG. 9

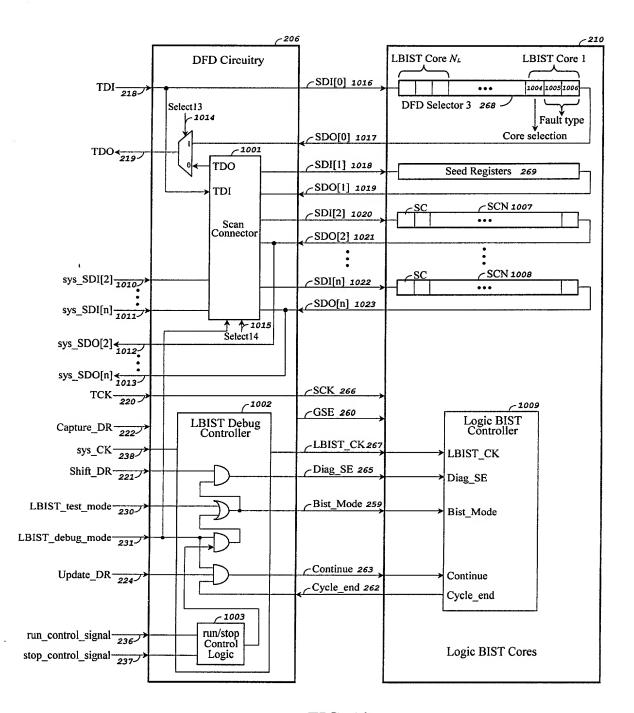


FIG. 10

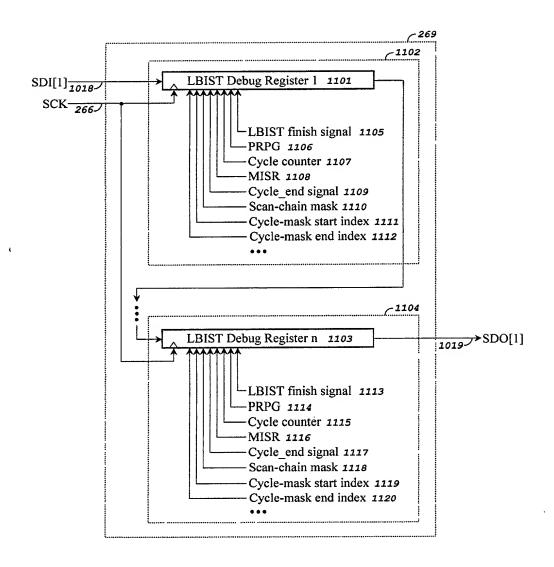


FIG. 11

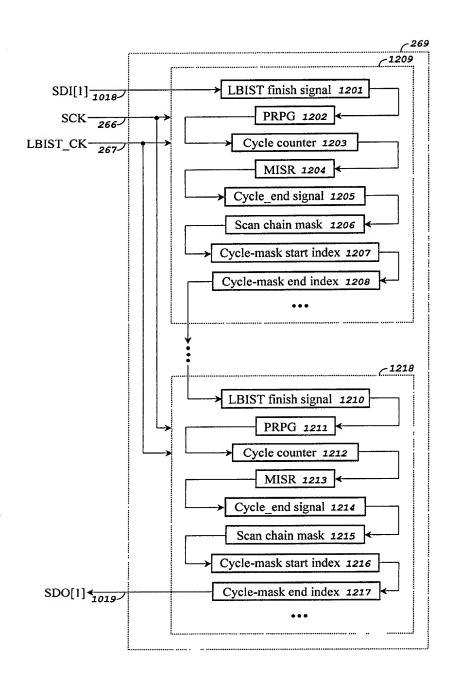


FIG. 12

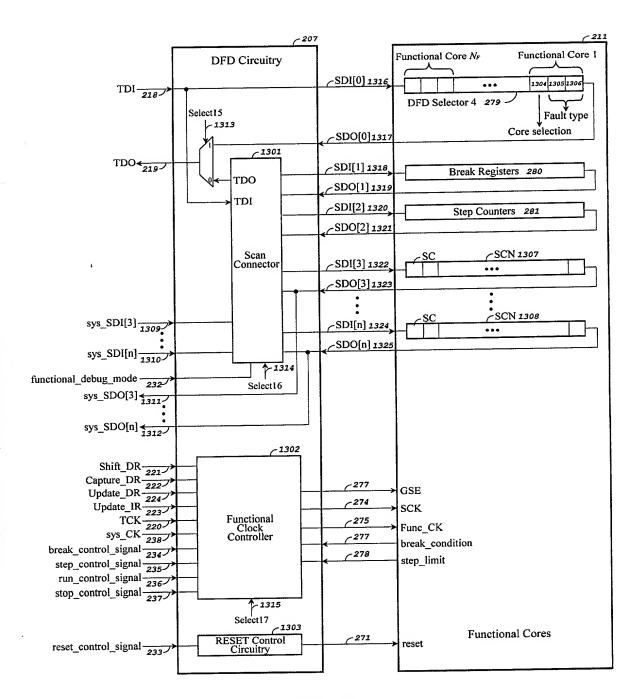


FIG. 13

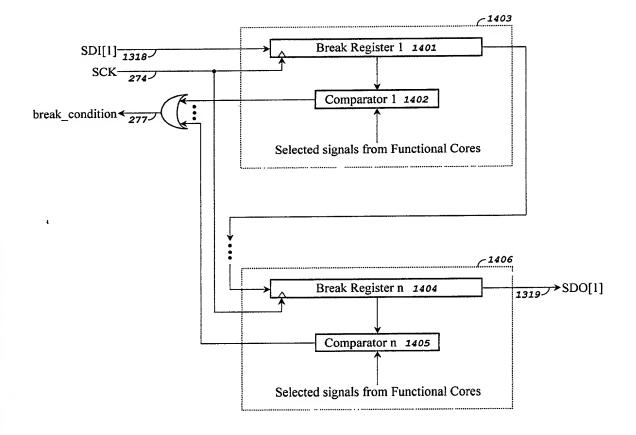


FIG. 14

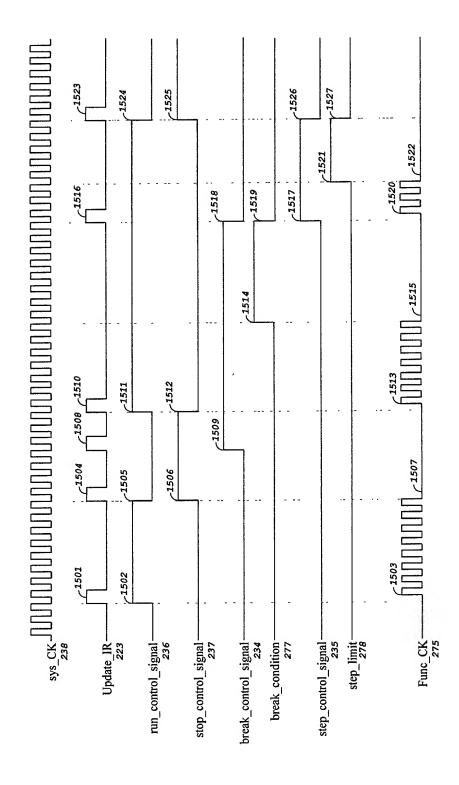


FIG. 15

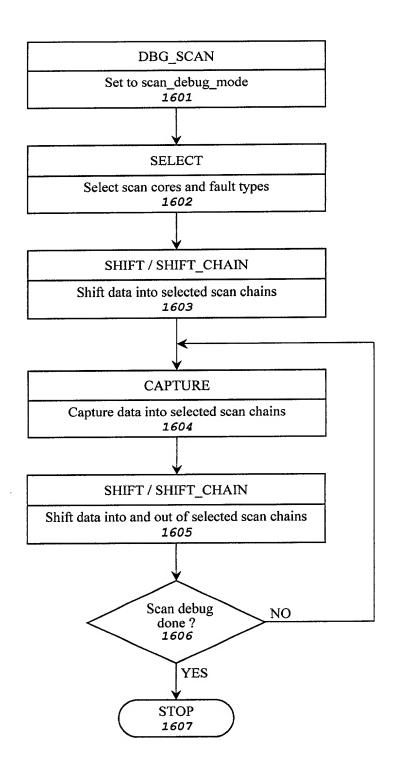


FIG. 16

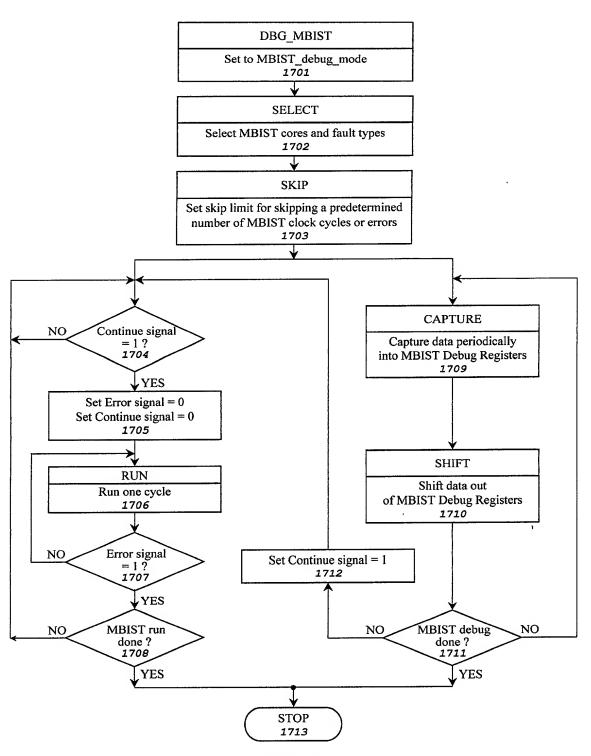


FIG. 17

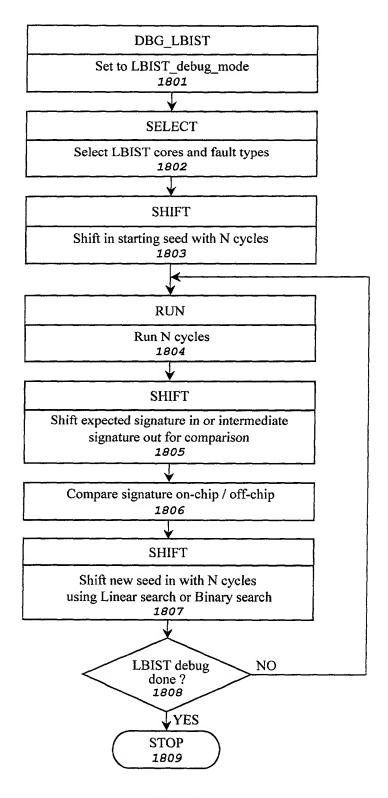
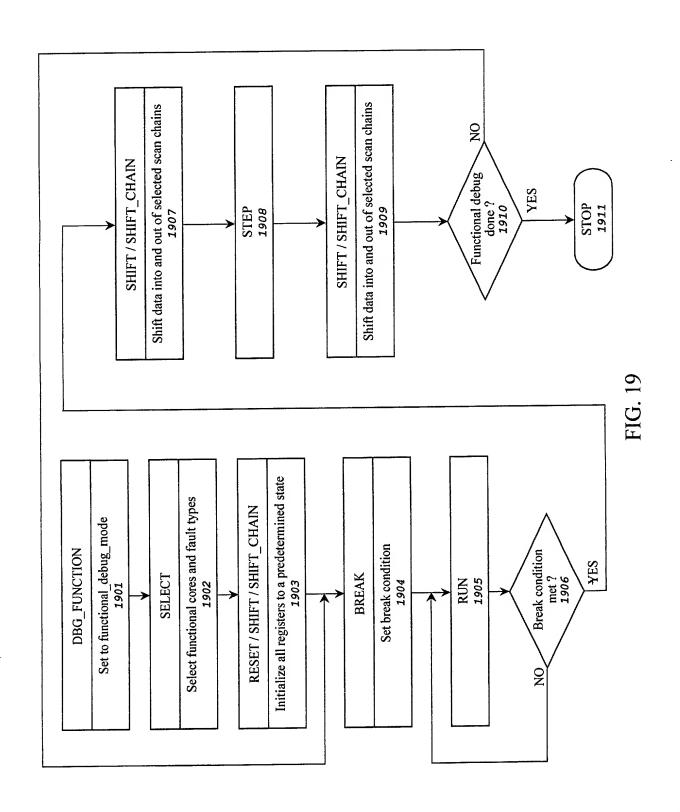


FIG. 18



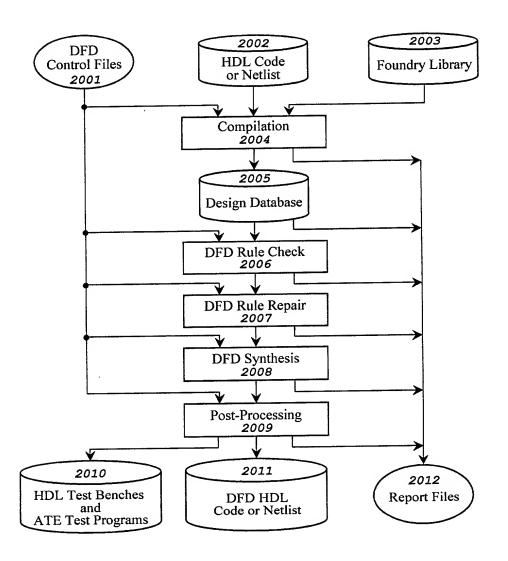


FIG. 20